I.I. Privalov's basic lemma for space potentials. Grus.SSR 18 no.3:257-264 Mr '57.	Soob. AN (MLRA 10:7)
1. Akademiya nauk Grusinskoy SSR, Tbilisskiy mate institut imeni A.M. Rasmadse. (Potential, Theory of)	maticheskiy

GEGELIA, T.G.

Properties of vertain classes of coninuous functions associated with Hilbert transforms in Bⁿ. Soob. AN Gruz. SSR 19 no.3:257-261 S. 57. (MIRA 11:5)

1. Akademiya mauk Gruzinskoy SSR, Tbilisskiy matematicheskiy institut im. A.M. Hazmadse. Predstavleno chlenom-korrespondentom Akademii N.P. Vekua.

(Functions, Continuous)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGELIA, T.O.

Boundedness of singular operators. Soob. AN Gruz.SSR 20 no.5: 517-523 My *58. (MIRA 11:10)

1. AN GrusSSR, Thilisskiy matematicheskiy institut im. 1..M.
Razmadze. Predstavleno chlenom-korrespondentom Akademii N.P.Vekua.
(Operators (Mathematics))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGELIA, T.G.

Behavior of generalized potential near the boundary of an integration set. Trudy Mat.inst.AN Gruz.SSR 26:189-193

'59. (MIRA 13:6)

(Functions, Analytic)

16,2600 16.3500

29861 S/044/61/000/007/034/055 C111/C222

AUTHOR:

Gegelia, T.G.

TITLE: Differential properties of some integral manifolds

PERIODICAL: Referativnyy shurnal, Matematika, no. 7, 1961, 79, abstract 7 B 368. ("Tr. Tbilissk. matem. in-ta. AN Gruz SSR", 1959, 26, 195-225)

TEXT: Let $P(x_1, x_2, ..., x_n)$, $Q(y_1, y_2, ..., y_n)$ be points of the n-dimensional space E^n , r(P,Q) be the distance between P and Q; Q be the unit vector of Q in the direction P; $\mathcal{N}(Q)$ be a continuous function the integral over the unit sphere of which is equal to zero: $\mathcal{N}(Q)d\mathcal{E}=0$. In the paper the author gives a number of results on the differential properties of the function

$$\varphi(P) = \int_{\mathbb{R}^n} \frac{\Omega(\Theta)K(P,Q)}{r^n(P,Q)} f(Q)dQ$$
 (1)

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Differential properties of some

in dependence on the differential properties of f(Q) and under certain restrictions for the kernel K(P,Q). As an example we give a theorem for which we premise the following definitions: It holds $K(P,Q) \in T$ if in every bounded closed set D' it holds uniformly with respect to P:

$$\lim_{\Sigma \to 0} \left\langle \frac{K(P,Q) - K(P,P)}{r^{n}(P,Q)} dQ = 0 \right\rangle;$$

here 6'(P,S) is the sphere with the radius S and the center P. It holds $K(P,Q) \in \mathbb{Z}_{p,\mathcal{L}}$ (p>0, d>0) if K(P,Q) is measurable in Q for every P and if for every bounded set D' there exists a constant c=c (D',p) so that for PED! it holds :

$$\left\{ \int_{\mathbb{R}^n} \frac{|\mathbf{K}(\mathbf{P},\mathbf{Q})|^p}{1+\mathbf{r}^{d}(\mathbf{0},\mathbf{Q})} \, d\mathbf{Q} \right\}^{1/p} \leq c \quad .$$
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Differential properties of some ...

It holds $K(P,Q) \in A_{p,d}^{\gamma}$ if $K(P,Q) \in T \cap L_{p,d}$ and if for every bounded set D' there exists an increasing function $\gamma(t)$ so that $\lim_{t \to 0} \gamma(t) = 0$ and

 $\Pr_{1,P_{2} \in \mathbb{D}^{1}, r(P_{1},P_{2}) < S} | K(P_{1},Q) - K(P_{2},Q)| \leq y(S)F(Q)$

And the second s

where $F(Q) \in L_{p, \infty}$. Let i_1, \ldots, i_m $(1 \le i_k \le n)$ be integers, and let :

 $\left[\mathbb{H}(P,Q)\right]^{\left[k\right]} = \frac{3}{3x_{i_{k}}} \left[\mathbb{H}(P,Q)\right]^{\left[k-1\right]} + \frac{3}{3y_{i_{k}}} \left[\mathbb{H}(P,Q)\right]^{\left[k-1\right]}$ (2)

 $[H(P,Q)]^{[0]} - H(P,Q)$ (k = 1,2,...,m)

Theorem: If the functions K(P,Q), $\left[K(P,Q)\right]^{\left[1\right]}$, ..., $\left[K(P,Q)\right]^{\left[m\right]}$ belong to the class $A_{q,n}^{p}$, and the functions

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Differential properties of some ... S/044/61/000/007/034/055

$$f(P)$$
, $\frac{\partial f(P)}{\partial x_{i_1}}$,..., $\frac{\partial^{m} f(P)}{\partial x_{i_1} \dots \partial x_{i_m}}$

belong to the class L $_{p,n}$ \cap T (p>1, $^1/p+^1/q=1)$ then the function $\varphi(P)$ defined by (1) is existing and continuous on E^n , there exist its continuous partial derivatives



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$$\frac{3x_{i_1}}{3\phi(b)}, \dots, \frac{3x_{i_1} \dots 3x_{i_m}}{3\phi(b)}$$

and

$$\frac{3^{k} \varphi(P)}{3^{k} \cdot \cdot \cdot 3^{k} \cdot \cdot \cdot} = \int_{\mathbb{R}^{n}} \frac{\Omega(Q)}{r^{n}(P,Q)} \left[K(P,Q) f(Q) \right]^{[k]} dQ , \quad (k = 0, ..., m)$$

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where [K(P,Q)][k] is calculated with H - Kf according to the formula
(2). Other analogous theorems are proved.

[Abstracter's note: Complete translation.]

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C111/C222

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AUTHOR: Gegelia, T.G.

TITLE: Composition of Singular Kernels

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 135, No. 4, pp. 767-770

TEXT: Let x, y, t, x', y',... be points of the Euclidean E_{m+1} ; r(x,y)

be the distance between x and y; $g_{-}(y,t) = \min \{r(x,y), r(x,t)\}$. c denotes

constants independent of the principal variables. Let S be a closed m-dimensional Lyapunov surface in E_{m+1} . On (S,S) let functions $K_1(x,y)$

and $K_2(x,y)$ be defined being continuous on (S,S) with a possible exception of the points (x,x) and satisfying the following conditions:

1°. $|\mathbf{x}_1(\mathbf{x},\mathbf{y})| \leq \xi_1(\mathbf{x},\mathbf{y}), |\mathbf{x}_2(\mathbf{x},\mathbf{y})| \leq \xi_2(\mathbf{x},\mathbf{y}).$

 2° . $|\mathbf{x}_{1}(\mathbf{x},\mathbf{y})-\mathbf{x}_{1}(\mathbf{x},\mathbf{y}^{"})| \leq \zeta_{1}(\mathbf{x}(\mathbf{y}^{"},\mathbf{y}^{"})) / \kappa_{1}(9_{\mathbf{x}}(\mathbf{y}^{"},\mathbf{y}^{"}))$.

 5° . $|\mathbf{K}_{2}(\mathbf{x}',\mathbf{y})-\mathbf{K}_{2}(\mathbf{x}'',\mathbf{y})| \leq \mathbf{S}_{2}(\mathbf{r}(\mathbf{x}',\mathbf{x}'')) M_{2}(\mathbf{S}_{\mathbf{y}}(\mathbf{x}',\mathbf{x}''))$.

Here $\xi_1(t)$, $\xi_2(t)$, $\mu_1(t)$, $\mu_2(t)$ are decreasing functions and $\xi_1(t)$, $\xi_2(t)$ Card 1/8

s/020/60/135/004/001/037 C111/C222

Composition of Singular Kernels

are increasing functions on $(0,\infty)$. Let furthermore exist matrices $\|A_{1,j}^{(1)}(x)\|$ and $\|A_{1,j}^{(2)}(x)\|$ continuous on S so that the quadratic forms

$$\sum_{i,j=1}^{\frac{n+1}{2}} A_{i,j}^{(1)}(x) C_{i}^{T} C_{j}^{T}, \qquad \sum_{i,j=1}^{\frac{n+1}{2}} A_{i,j}^{(2)}(x) C_{i}^{T} C_{j}^{T}$$

are positive definite on S, and for every x6S there exist the limit values

4°. lim
$$\int_{\xi \to 0} K_1(x,y)dS_y - \int_{S} K_1(x,y)dS_y$$
.

5°. lim
$$\int_{\xi \to 0} K_2(y,x)dS_y = \int_{S} K_2(y,x)dS_y$$
.

Card 2/8

S/020/60/135/004/001/037 C111/C222

Composition of Singular Kernels

Here dS_y is the surface element of S in the point y; $S_k(\xi,x) = S - S_k(x;\xi)$ (k=1,2); $S_k(x;\xi)$ are the sets of those points y \in S for which $G_k(x,y) < \xi$, where

 $G_k^2(x,y) = \sum_{i=1}^{k+1} A_{i,j}^{(k)}(x)(x_i-y_i)(x_j-y_j).$

The composition of the kernels $K_1(x,y)$ and $K_2(x,y)$ now is defined by

(1)
$$E(x,y) = \int_{S} K_1(x,t)K_2(t,y)dS_t,$$

where

$$\int_{S} \mathbb{K}_{1}(x,t)\mathbb{K}_{2}(t,y)dS_{t} = \lim_{\xi,\delta \to 0} \int_{S(\xi,\delta)} \mathbb{K}_{1}(x,t)\mathbb{K}_{2}(t,y)dS_{t},$$

$$S(\xi,\delta) = S_{1}(\xi,x) \bigcap S_{2}(\xi,y).$$

Theorem 1: If $K_1(x,y)$, $K_2(x,y)$ satisfy the conditions 1^0-5^0 then the Card 3/8

S/020/60/135/004/001/037 C111/C222

Compositions of Singular Kernels

composition K(x,y) of these kernels defined by (1) is continuous on (S,S) with a possible exception of the points (x,x), and, in the neighborhood of these points, it admits the estimation

(2)
$$0|\mathbf{E}(\mathbf{x},\mathbf{y})| \leq M_1(\mathbf{r}) \int_{\mathbf{r}}^{\mathbf{r}} \mathbf{r}^{-1} \xi_2(\mathbf{r}) \xi_1(\mathbf{r}) d\mathbf{r} M_2(\mathbf{r}) \int_{\mathbf{r}}^{\mathbf{r}} \mathbf{r}^{-1} \xi_1(\mathbf{r}) \xi_2(\mathbf{r}) d\mathbf{r}$$

where r=cr(x,y) and $\gamma_1(z)$, $\gamma_2(t)$ are increasing functions on $(0,\infty)$ which are chosen so that

$$\left|\int_{S_{1}(x;\xi)} K_{1}(x,y)dS_{y}\right| \leq \gamma_{1}(\xi), \quad \left|\int_{S_{2}(x;\xi)} K_{2}(y,x)dS_{y}\right| \leq \gamma_{2}(\xi).$$

Let $K_4(x,y)$ additionally satisfy the conditions

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Composition of Singular Kernels

6°.
$$|K_1(x',y)-K_1(x'',y)| \leq \xi_3(r(x',x'')) \mu_3(g_y(x',x''))$$
.

7°.
$$\left| \int_{S_1(x;\xi)} \left[K_1(x,t) - K_1(y,t) \right] dS_t \right| \leq v_1(r(x,y)) v_2(\xi).$$

Here $\zeta_3(\mathcal{C})$ and $v_1(\mathcal{D})$ are increasing functions and $p_3(\mathcal{C})$ and $v_2(\mathcal{C})$ are decreasing functions on $(0,\infty)$; $r(x,y) \leq c\xi$. Theorem 2: If $K_1(x,y)$, $K_2(x,y)$ satisfy the conditions $1^\circ-7^\circ$ then for g>r it holds:

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Composition of Singular Kernels

$$c | K(x',y)-K(x'',y)| \leq v_1(x)v_2(g)\xi_1(g)+\xi_2(x)\varrho_1(x)M_2(g)+\xi_3(x)\varrho_2(x)M_3(g)+ \\ +M_2(g)\int_0^{\pi} c^{m-1}\xi_1(x)\xi_2(x)dx+\xi_3(x)M_2(g)\int_0^{\pi} c^{m-1}M_3(x)\xi_2(x)dx+ \\$$

for ger it holds:

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Composition of Singular Kernels

$$c | K(x',y) - K(x'',y) | \leq \xi_{2}(\varsigma) \eta_{1}(r) + \xi_{1}(\varsigma) \eta_{2}(r) + M_{2}(\varsigma) \int_{0}^{r} t^{m-1} \xi_{1}(t) \xi_{2}(t) dt + M_{2}(s) \int_{0}^{r} t^{m-1} \xi_{1}(t) \xi_{2}(t) dt + M_{2}(s) \int_{0}^{r} t^{m-1} \xi_{1}(t) \xi_{2}(t) dt + \int_{0}^{r} t^{m-1} \xi_{1}(t) dt + \int_{0}^{r} t^{m-1}$$

where $g = cg_y(x',x'')$.

Similar estimations hold for $|K(x,y^t)-K(x,y^n)|$. The two theorems form the base for the investigation of integral equations with multiple singular integrals on Lyapunov manifolds and permit a generalization of the results of Giraud (Ref. 2) to this case.

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Composition of Singular Kernels

Some exceptional cases are considered; especially it is stated that the composition of a quasisingular kernel yields a quasisingular kernel. There are 11 references: 8 Soviet, 1 German, 1 French and 1 Folish.

ASSOCIATION: Tbilisskiy matematicheskiy institut imeni A.M.Razmadse Akademii nauk GruzSSR (Tbilissi Mathematical Institute imeni A.M.Razmadze of the Academy of Sciences Gruzinskaya SSR)

PRESENTED: June 18, 1960, by N.I.Muskhelishvili, Academician

SUBMITTED: June 15, 1960

Card 8/8

25773 5/020/6:/139/002/003/017 0111/0333 AUTHOR 8 Gegelia, T. G. Properties of n-dimensional singular integrals in the TITLE Lp(S;3) absoa PERIODICAL: Akademiya nauk SSSR. Doklady, v. 139, no. 2, 1961, 279-282 TEXT: Let E_{m+1} be the Euclidean space; x,y,z its points (x = (x,... ..., x_{m+1}); r(x,y) -- distance between x and y; $C(z,\delta)$ -- sphere with center z and radius δ ; 1 -- arbitrary straight line through z; H(1, 3) -- circular cylinder with the axis 1, height 20, inversion center z, base radius d. Let S be a bounded closed m-dimensional mainifold in E_{m+1} with the property: To every $z \in S$ there corresponds a c > 0 and a system of coordinates (X_1, \dots, X_{m+1}) with origin in z so that the part of Sbeing in $H(X_{m+1}, \delta)$ admits the representation: $\eta_{m+1} = g(\eta_1, \dots, \eta_m)$ where $\gamma_1, \dots, \gamma_{m+1}$ are the coordinates of the point yes $\Lambda H(X_{m+1}, \delta)$ Card 1/8

S/020/6*/:39/002/003/017 Properties of n-dimensional singular... 01:1/0333 in the system (X_1,\ldots,X_{m+1}) , while χ is a unique function defined on $\mathcal{T}(z,\delta)$, where $\mathcal{T}(z,\delta)$ is the section of $C(z,\delta)$ with the hyperplane through z which is perpendicular to \mathbf{X}_{m+1} . Assume that γ possesses continuous partial derivatives of first order in $T(z,\delta)$, let $\chi(0,\ldots,0)$ = - $\partial y(0,...,0)/\partial y_k = 0(k + 1,..., m)$ and let the $\omega(\partial y/\partial y_k) t) t^{-1}$ $(k=1,\ldots,n)$ be integrable in (0.1), where 40 is the modulus of continuity of $\partial \chi/\partial \eta_k$ in $\mathcal{C}(z,\theta)$.

Let an (m+1)-dimensional symmetric matrix ||A|, ||A|, ||A| be given on S, where the form $\sum_{i=1}^{n} A_{i,j}(y)$ to is assumed to be positive definite in every point $y \in S$ and the $\omega(A_{i,j}; t)$ the $(i,j=1,\ldots,m+1)$ are assumed to be intregrable in (0,1).

The operator Card 2/8

Properties of n-dimensional singular... $\frac{8/020/6^{\circ}/^{\circ}33/002/003/0^{\circ}7}{0.11/0335}$

$$K_{\varphi}(x) = \int_{S}^{\bullet} k(y_{x}x) \varphi(y) ds_{y}$$

is considered, where

$$k(y,x) = \prod_{i=1}^{n+1} (x_i - y_i)^{\lambda_i} [G(y,x)]^{-\lambda}, G^2(y,x) = \sum_{i=j+1}^{n+1} A_{i,j}(y)(x_i - y_i)$$

 (x_j-y_j) , λ_i (i = 1,000, m+1) and λ are arbitrary nonnegative integers, λ - m = $\sum \lambda_i$ a positive odd number. $\Re(y)$ the density of the integral, dS_y -- surface element of S in the point y and

$$\int_{S}^{y} k(y,x) \varphi(y) dS_{y} = \lim_{\delta \to 0} \int_{S(\delta,x)} k(y,x) \varphi(y) dS_{y}$$

Card 3/8

Properties of n-dimensional singular... C111/C333 s/020/61/139/002/003/017 where $S(J_{1}x) \times S = S(x_{1}\delta)$; $S(x_{1}\delta) \times S(J_{1}) \times S(J_{1})$

Properties of n-dimensional singular... $C_1^{(1)}(5)^{(0)}(0)^{($

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Properties of n-dimensional singular... C:11/0333

where $C_k^{(i)}(y)$ (k-1,...,m+1) are continuous on S, and B(z) = det ${}^{i}B_{1j}(z)$ ${}^{m}_{1,j}$, where $B_{1j}(z)$ ${}^{m}_{2j}$ m

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THE THE PROPERTY OF THE PROPER

Properties of n-dimensional singular . $\frac{25/7}{5/020/6^4/139/002/003/017}$ $\int_{S} k^{(1)}(y,z)dS_{y} \int_{S} k^{(2)}(x,y) \psi(x)dS_{x} = \int_{S} \varphi(x)dS_{x} \int_{S} k^{(1)}(y,z)k^{(2)}(x,y)dS_{y} + \int_{S} \varphi(x)dS_{x} \int_{S} k^{(1)}(y,z)dS_{y} + \int_{S} \varphi(x)dS_{x} \int_{S} k^{(1)}(y,z)dS_{y} + \int_{S} \varphi(x)dS_{x} \int_{S} k^{(1)}(y,z)dS_{y} + \int_{S} \varphi(x)dS_{y} + \int_{S} \varphi$

 $-\frac{\int_{\frac{1}{2},\frac{1}{2}-1}^{m+1} b_{i,j}(z) d_{i}^{(1)}(z) d_{j}^{(2)}(z)}{m \int_{\frac{1}{2}}^{2} (\frac{m+1}{2}) B(z)} \Psi(z)$

The author refers to some possible generalizations of these theorems. He mentions S. G. Mikhlin.

There are 9 Soviet-blos and 5 non-Soviet-blos references. The two references to English-language publications read as follows: A. Calderon, A. Zygmund, Am. J. Math., 78, No. 2, 289 (1956); E. Stein, Proc. Am., Math. Soc., 8, No. 2, 250 (1957).

Card 7/8

Properties of n-dimensional singular - City(535)

ASSOCIATIONs Tbilisekiy matematicheskiy institut iment A. M. Ruzmadze Akademit nauk Gruz SSR (Tbiliat Institute of Mathematice Iment A. M. Razmatze of the Analemy of Sciences Gruzinakaya SSR)

PRESENTED: March 6. 1961, by N. J. Muskbeltervili Academician

SUBMITTED: March 3, 1961

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

/6,6400 (1024, 1/21, 1329) AUTHOR: Gegelia, T.G. 32298 S/020/61/141/004/002/019 C111/C222

TITLE:

Integral equations containing integrals extending over a surface with edges

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 141, no. 4, 1961, 773 - 776

TEXT: Let S be a bounded open smooth manifold in the three-dimensional Euclidean space and s be the boundary of S . On S \times S the author defines singular kernels k(x,y) which especially may have the form

 $k(x,y) = \sum_{i=1}^{3} c_{i}(x,y) (x_{i} - y_{i}) \sigma^{-3} (x,y) + k_{1}(x,y) ,$ $\sigma^{2} = \sum_{i,j=1}^{3} A_{ij}(x,y) (x_{i} - y_{i}) (x_{j} - y_{j}) ,$ (2)

where $c_i(x,y)$ (i= 1,2,3) are given functions on S \times S which satisfy the condition $H(\lambda)$, the $A_{ij}(x,y)$ belong to the class $H(\lambda)$ on S \times S, Card 1/5

5/020/61/141/004/002/019 Integral equations containing integrals ... C111/C222

 $\sum A_{ij}(x,y)t_it_j$ is positive definite for every point $(x,y) \in S \times S$, and nothing is said about $k_1(x,y)$.

[Abstracter's note: There obviously is a misprint and it shall be $k_1(x,y) = O[r^{d-2}(x,y)]$ uniformly in x,y and besides sufficiently smooth.] The author considers integral equations $A(\varphi) = a(x)\varphi(x) + \int_{S} k(x,y)\varphi(y)dS_{y} = f(x)$

(3)

where a(x) and f(x) are given on S, $dS_{y^{--}}$ surface element of S, in the point y, k(x,y) is a singular kernel, the integral is understood in the sense of the principal value, $\varphi(y)$ is sought in the class $L_n(S;y)(p>1)$ and $\gamma(y)$ is a weight function. For auxiliary purposes the author introduces operators

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APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

32298 S/020/61/141/004/002/019 Integral equations containing integrals .. C111/C222

$$K_{\varphi}(x) = \int_{S} k(x,y) \varphi(y) ds_{y}$$
, $K_{\varphi}^{\sigma}(x) = g^{-\gamma}(x) \int_{S} k(x,y) g^{\gamma}(y) \varphi(y) ds_{y}$

where γ is an arbitrary real number, g(x) is the distance from x to s, and for y = x the integrals are defined in the sense of the principal value. Basing on the earlier results (Ref. 2: T.G. Gegelia, DAN 139, no. 2 (1961)) the author shows the existence and boundedness of the

operators $K_{\varphi}(x)$ and $K_{\varphi}^{\varphi}(x)$ for almost all $x \in S$. Furthermore: Theorem 4: If m(x,y) and k(x,y) as well as their composition (Ref. 16. T.G. Gegelia, DAN 135, no. 4,767 (1960)) are singular kernels then for every $\varphi \in \mathbb{F}_p$ (S; \S^B) (-1<B<p>-1) and almost all x of S there holds the formula

$$\int_{S} m(x,y) dS_{y} \left\{ k(y,z) \varphi(z) dS_{z} = c(x) \varphi(x) + \int_{S} \varphi(z) dS_{z} \right\} m(x,y) k(y,z) dS_{z},$$

where c(x) is a certain function not depending on $\varphi(x)$. Card 3/5

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Integral equations containing integrals .. C111/C222

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Then the author considers the exceptional case of (3) with a(x) = 1, where k(x,y) is defined by (2) and $f \in L_p(S; g^{d(p-1)})$ (p > 1, $0 < \alpha < 1$). The function $\varphi(x)$ is sought in the same class. In this case the operator A is denoted with K^0 . It is shown that K^0 is a Noether-operator in the space $L_p(S, g^{\alpha(p-1)})$, i.e. that the Noether theorems are valid for $K^0 \varphi = f$. It is pointed out that this assertion holds also under more general assumptions, e.g. if s is piecewise smooth and the coefficients have certain discontinuities. Finally it is briefly described how (3) can be regularized in $L_p(S, g^{\alpha(p-1)})$ in the general case so that also in the general case the correctness of the Noether theorems can be proved for (3). The author mentions S.G. Mikhlin, S.M. Nikol'skiy, I.Ts. Gokhberg and B.V. Khvedelidze.

There are 15 Soviet-bloc and 4 non-Soviet-bloc references. The reference

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to the English-language publication reads as follows: A. Kalderon, A. Zygmund, Am J. Math., 78, no. 2, 289(1956).

ASSOCIATION: Vychislitel'nyy tsentr Akademii nauk Gruz SSR (Computing Center of the Academy of Sciences Gruzinskaya SSR)

PRESENTED: July 6, 1961, by N.I. Muskhelishvili, Academician

THE I MENTER A PROPERTY OF THE PROPERTY OF THE

SUBMITTED: June 30, 1961

Card 5/5

GEGELIA, T.G.

Inversion formula for the order of integration in iterated singular integrals. Trudy Mat. inst. AN Gruz. SSR 28:41-52 '62. (MIRA 16:8)

(Integrals)

ACCESSION NR: AT4044588

8/2683/62/028/000/0053/0072

AUTHOR: Gegelia, T. G.

TITLE: Some fundamental spatial boundary value problems in the theory of elasticity

SOURCE: AN GruzSSR. Matematicheskiy institut. Trudy*, v. 28, 1962, 53-72

TOPIC TAGS: elasticity theory, boundary problem, boundary value problem, spatial boundary problem, clastic oscillation, adjoint integral equation, Fedholm theorem

ABSTRACT: In the mathematical theory of elasticity, planar problems have been exten-, sively studied (by Muskhelishvili, for example) by the methods of complex-variable function theory and the theory of one-dimensional, singular, integral equations. In spatial problems, however, the former methods are inapplicable, but multidimensional, singular, integral equations have been successfully used by V. D. Kupradze. The present paper adds to these results. In the first section, the author derives certain auxiliary formulas. The equilibrium of a homogeneous, elastic, isotropic body is described by the system of differential equations (1)

Card 1/4

ACCESSION NR: AT4044568

where δ_{ij} is the Kronecker symbol. Then by using a stress operator, a new form of the fundamental matrix is obtained and its properties are studied. In section 2, the author poses boundary-value problems of the theory of elasticity in several forms, and reduces them to equivalent systems of singular, surface integral equations. Let 8 be a closed, them to equivalent systems of singular, surface integral equations. Let 8 be a closed, two-dimensional Lyapunov manifold, D⁺, a finite region bounded by 8, and D⁻, the complement of D⁺US with respect to the whole space. A typical problem is: Problem $(w)_1^+$ — To find in D⁺ the solution of system (1), represented by the potential $w(\varphi;x)$ with a density Yof class LP(S) (p>1) under the boundary condition $w^+(\varphi;x) = f(x)$ for almost all x in S, where f(x) is a given function on S of class LP(S). The equivalent singular integral equation is

-__ 2/4

ACCESSION NR: AT4044588

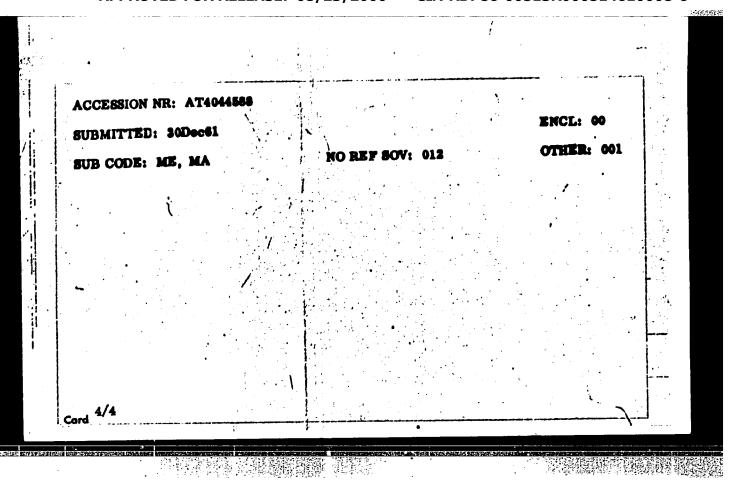
In section 3 it is shown that the obtained systems of integral equations form three pairs of mutually adjoint systems. Thus, the systems (w) and (v) (also defined in section 2), considered in spaces L^P(S) and L^P(S), respectively, form a system of adjoint singular integral equations. Similar statements apply to the other problems defined in section 2. Section 4 includes a proof of the validity of Fredholm's theorem for these singular systems. Typically: System (w) is normally resoluble with a zero index in the space L^P(S). Section 5 is a detailed study of the homogeneous, singular, integral equations. A typical theorem is: The homogeneous system (w) of singular integral equations has only a trivial solution in the space L^P(S) for any p>1. The problems stated in section 2 are then studied in greater detail in section 6. Typically: The boundary value problem (w) has a unique solution for every f in L^P(S). The interior and exterior boundary-value problems of the solution of elasticity, in their classical form, are discussed in section 7. The paper ends with a brief section 8 devoted to the problem of elastic oscillations. Orig. art. has: 29 numbered formulas.

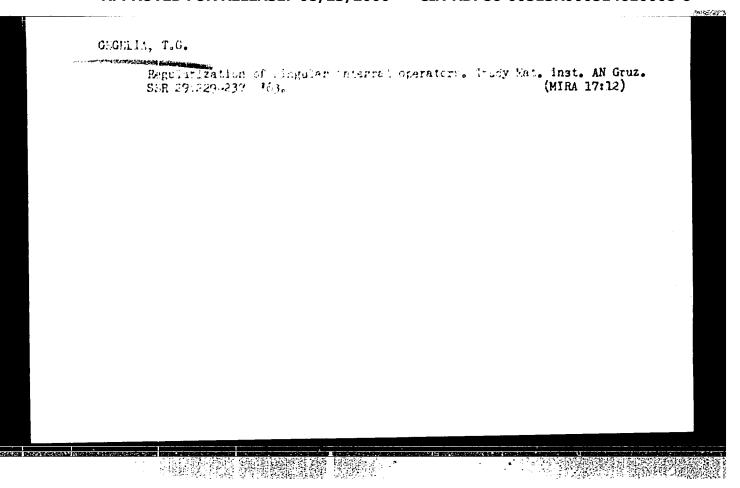
ASSOCIATION: Tbilisskiy matematicheskiy institut, AN GruzSSR (Tiflis Mathematics Institute, AN GruzSSR)

Cord 3/4

11

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6





BASHEIFYSHVILI, M.O.; GEGELIA, T.G.

Fundamental three-dimensional boundary value problems for composite instropic elastic media. Dokl. AN SSSR 160 no.1:50-53 Ja '65.

(MIPA 18:2)

1. Vychislitel'nyy tsentr AN GruzSSR. Submitted June 25, 1964.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

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T CANADA TANDAN TANDAN TANDA TANDA

VAKHANIYA, Ye.K.; NIKURADZE, G.N.; ABESADZE, D.M.; GECELIDZE, K.I.

Possible oil and gas occurances in Mesozoic sediments of western
Georgia. Trudy VNIGNI no.15:66-78 *59. (MIRA 14:6)
(Georgia—Petroleum geology)
(Georgia—Gas, Natural—Geology)

GEGELIYA, T. G.

"Investigation of the 'Tiropol'skiy' type water fence."

Dissertation for Candidate of Technical Sciences, Georgian Industrial Institute, Toilisi.

Subject: Hydroengineering building and construction

SO: Gidrotekhnicheskoye, stroitel'stvo, 12, 1946.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

8(6), 14(6)

SOV/112-59-1-398

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 1, p 55 (USSR)

AUTHOR: Gegeliya, T. [G-]

TITLE: Water-Power Resources of Gruzinskaya SSR and Prospects for Their

Utilization

PERIODICAL: Sakartvelos ekonomisti, 1958, Nr 2, pp 58-67 (Original in Georgian)

ABSTRACT: Bibliographic entry.

Card 1/1

507/98-58-12-7/21

Gegeliya, T.G., Candidate of Technical Sciences AUTHOR:

The Trash-Collecting Canal of a Water-Retaining Dam (Nano-TITLE:

soperekhva tyvayushchiy kanal-kollektor vodozabornoy plo-

tiny)

Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 12, pp 30 -PERIODICAL:

32 (USSR)

During the last 10-15 years, water-retaining dams contain-A BSTRACT:

ing a water intake canal and a trash collecting canal (0.4 m wide) for the interception of small sized sediments have been used in the construction of small and medium hydroelectric power plants in mountainous districts. Both canals are covered with perforated grates. Trials carried out by the author and others have shown that grates of tra-

pezoidal profile with a circular head posses the greatest

permeability. There are 2 sets of diagrams.

Card 1/1

REPORTED THE PROPERTY OF THE P

8(6). 14(6)

507/98-59-9-28/29

AUTHOR:

Gegeliya, T.G., Candidate of Technical Sciences

TITLE:

Some Results of Work on Cheaper and Faster Construc-

tion of Hydropower Plants

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 9,

pp 61-63 (USSR)

ABSTRACT:

The article describes the activity of the Tiflis department of "Gidroenergoproyekt" on acceleration and cost reduction at some hydropower plant constructions. In the construction of the Ladzhanuri GES, cost reduction was obtained by changing a gravity dam (designed for a preliminary project) into a spillway arch dam (Fig 1). The arch dam will be equipped with various precision measuring instruments, to be investigated under various operational conditions; a small dissipation basin will be formed behind the dam by a low, three-hinged arch dam which will be used by the

Card 1/2

VNIIG, TNISGEI, and the Stroitel'nyy Institut (Building Institute) of the Georgian Academy of Sciences,

SOV/98-59-9-28/29

Some Results of Work on Cheaper and Faster Construction of Hydro-power Plants

for scientific research. Experience with the Ladzhanuri arch dam will be useful for construction of some higher arch dam, such as the 240-m Inguri GES. Cost reduction at the Namakhvani-GES earth dam (Fig 2) was obtained by the use of local materials for its Construction; at the Dar'yal'skaya GES on the Terek River, cost reduction was obtained by many smaller changes in the project. At some hydropower plants significant cost reduction and acceleration of works were obtained by the use of prefabricated reinforced concrete parts (Ladzhanuri GES, Khram-GES II, Gumati-GES I, the Karabulakhskiy tunnel). There are 3 diagrams and 1 table.

Card 2/2

TO DESIGN THE MARKET

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGELIYA, T.G., kend.tekhn.nauk; GVELESIANI, L., red.; DZOTSENIDZE, Sh., tekhred.

[Submerged intakes and buttress dams] Donnye i bychkovye vodomebornye plotiny. Tbilisi, Gos.izd-vo "Sebchota Sakartvelo,"
[NIRA 13:7]

(MIRA 13:7)

(Dams) (Hydraulic engineering)

1. 2. dolar oddicki postane protestae die trenom - Konor -----

DOMIDZE, David Yegorovich, prof. [1908-1960]; ORGELIA, T.G., red.; KVARIANI, E.A., red.isd-va; TODUA, A.R., tekhred.

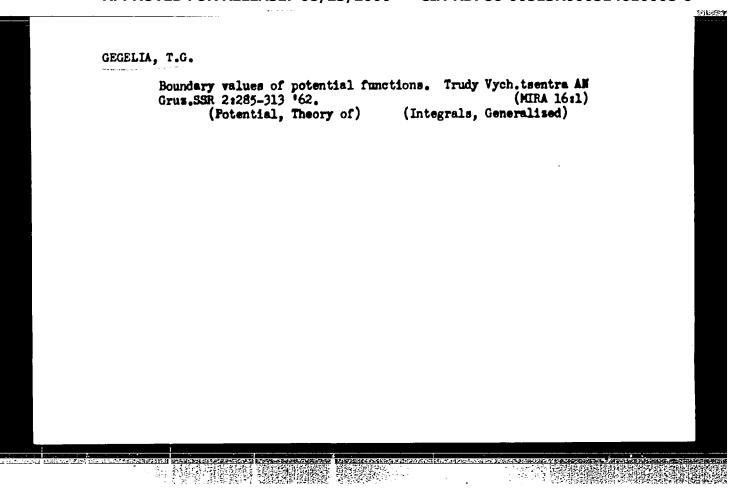
[Some problems of nonstationary viscous flow; method of potentials and integral equations] Mekotorye voprosy nestatsionarnogo techenia visskoi shidkosti; metod potentsialov i integral nykh uravnenii. Tbilisi, Isd-vo Akad.nauk Gruzinskoi SSR.

[1960. 331 p. (MIRA 14:4)

(Hydrodynamics) (Potential, Theory of)
(Integral equations)

GEGELIYA, T.G., kand.tekhn.nauk; AMIREDZHIBI, I.A., inzh. The Inguri Hydroelectric Power Station. Gidr. stroi. 32 no.12:4-8 D 161. (MIRA 15:2) no.12:4-8 D '61. (Inguri Hydroelectric Power Station)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"



GEGELIYA, T.G.

Charles Collegens of Barbares Indonesia Collegens

Some fundamental three-dimensional boundary value problems in the theory of elasticity. Trudy Mat. inst. AN Gruz. SSR 28:53-72 '62. (MIRA 16:8)

(Boundary value problems) (Elasticity)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

BASHELEYSHVILI, M.O.; BURGAUDADZE, T.V.; GENELIYA, T.G. (Tbilisi)

"On some boundary problems of the theory of elasticity"

report presented at the 2nd All-Union Congress on Theoretical and Applied

Mechanics, Moscow 29 Jan - 5 Feb 1964.

USSE/Archit 7708.

Leading Archit 7327.

"Contribution of the Architects of the City of Lenin to Soviet Architecture, "(A. I. Gegello, Active Hem, Acad Archit USSE, 1 pp

"Arkh 1 Stroi" Vol III, No 1

Traces development of Soviet architecture in Leningrad, mentioning names of many outstanding architects of past 30 years and their contributions. Shows pictures of some of important or beautiful buildings in Leningrad.

GEGELLO, A.I. THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER. Our creative tasks; from a speech by acting member of the Academy of Architecture, U.S.S.R., A.I.Gegello, at the all-city conference of architects of Lemingrad. Arkhit.i stroi Len. no.1:43-46 149. (MIRA 7:5) 1. Deystvitel'nyy chlen Akademii arkhitektury SSSR. (Leningrad -- Architecture) (Architecture -- Leningrad)

> CIA-RDP86-00513R000514610008-6" APPROVED FOR RELEASE: 08/23/2000

HEREL'STRY, I.M.

Balsam fir in Chernigov Province. Bot.zhur.[Ukr.] 10 no.3:57-61 '53.
(MEMA 6:8)

1. Kyyivs'kyy lisohospodars'kyy instytut, kafedra dendrolohiyi.
(Chernigov Province—Balsan fir) (Balsam fir—Chernigov Province)

Landscape composition in the "Trostyanets" sylvan park. Biul.Glav.bot sada no.20:62-72 '55. (MIRA 8:9) 1. Dendropark "Trostyanets". (UkraineParks)	•
1. Dendropark "Trostyanets". (Ukraine-Parks)	

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGML'SKIY, I.N.

Landscape compositions in the Pervomayskaya Glade of the Trostyanets Park. Trudy Bot.sada AN URSR 5:133-146 '58. (MIRA 12:2)

(Chernigov Province-Landscape architecture)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

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CIA-RDP86-00513R000514610008-6

GEGENAVA, &

USSR/Pharmacology, Toxicology. Canglioblocking Drugs

U-4

Abs Jour : Ref Zhur - Biol., No 4, 1958, No 17589

: Cegenaya Author

Inst

: Institute of Clinical and Experimental Cardiology of the

Academy of Sciences in Georgia.

: Materials to the Pharmacology of Disopropylputrescine Title

Orig Pub: Tr. In-ta klinich. lexperim. cardiol. AN GruzSSR 1956 (1957)

4, 229-238

Abstract : In an acute experiment on dogs the effect of disapprophl-

putrescine (1) on the blood pressure (RP) was studied. 1 administered intravenously induced a fall in blood pressure by 30-40 mm in 3 hours. 1 administered orally in a 0.5-1 mg/kg dose decreased the blood pressure in 5-8 hours. The mechanism of the depressor action of 1 is of a central

nature.

: 1/1 Card

An important ecological form of red oak. Visnyk sil'hosp.nauky
4 no.8:108-110 Ag '61. (MIRA 14:7)

1. Uchbova chastina Ukrains'koi akademii sil's'kogospodars'kikh
nauk. (Oak)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

光本學教養養養養養養

GECEL'SKIY, I.N. [Hehel's'kyi, I.N.]

Investigating the root system of red oak under cultivation.

Trudy Bot. sada AN URSR 7:45-52 '60. (MIRA 14:4)

(Oak) (Roots (Botany))

BABAYAN, A.T.; GEGELYAN, Zh.G.; INDZHIKYAN, M.G.

Amines and ammonium compounds. Part 14: Alkaline cleavage of ammonium salts containing an alkoxymethyl group in the δ -position of the β , γ -unsaturated radical. Zhur. ob. khim. 31 no. 2:611-616 F 161. (MIRA 14:2)

1. Institut organicheskoy khimii AN ArmSSR. (Ammonium compounds)

BABAYAN, A.T.; INDZHIKYAN, M.G.; GEGELYAN, Zh.G.

Amines and ammonium compounds. Part 19. Zhur.ob.khim. 33 no.7;
2177-2181 J1 '63.

(Amines) (Ammonium compounds)

(Amines) (Ammonium compounds)

BABAYAN, A.T.; INDZHIKYAN, M.G.; GEGELYAN, Zh.G.

Amines and ammonium compounds. Part 10: Alkali cleavage of ammonium salts containing an electron-acceptor group in the position of the positio

BABAYAN, A.T.; INDZHIKYAN, M.G.; GEGELYAN, Zh.G.

Amines and ammonium compounds. Part 25: Alkaline decomposition of quaternary ammonium salts containing a tertiary butyl substituent in the 3 -position of the 1/1-unsaturated group. Izv. AN Arm. SSR. Khim. nauki 18 no.1:25-31 165. (MIRA 18:5)

1. Institut organicheskoy khimii AN Armyanskoy SSR.

CIA-RDP86-00513R000514610008-6

PARCELL, LOT., BUTCHINYAN, M.O.; C'CTTYON, IN.C.

amore and accounts compressed. Lart per visualize 1. emporition of queternary accounts malts containing a referry successful to. 12v.AN Arm. G.B. Shin.nauki 18 nc.41351-35/- 165.

[MIRA 18:23]

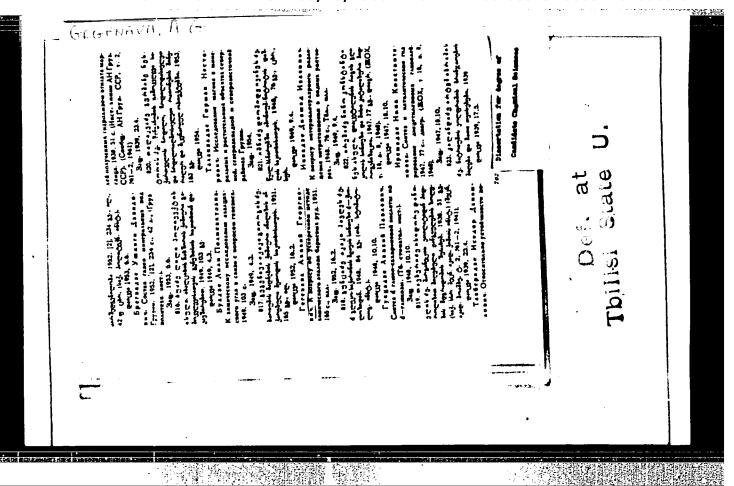
1. Testitut organizationsky stanta an Armyorakey 5. R. Committed July 21, 1964.

caused a fall in blood pressure by 90-100 mm in 24 hours. When I was administered daily in a 0.5-0.8 mg/kg dose for 5-6 days the blood pressure was decreased by 70-80 mm during 12-13 days. In dogs with renal hypertension linduced a de-

APPROVED FOR RELEASE in a considerably smaller degree.

APPROVED FOR RELEASE 18/23/2009 ons GIANRORS - 90513R000514610008-6" lation apparatus in animals.

Card : 1/1



- 1. KARUMIDIZE, S.A., NOVITSKAYA, T.N., GEGNAVA, G.V.
- 2. USSR (600)

MATERIAL PROPERTY OF THE PROPE

7. "Concerning the Application of Some Combination Mixtures in Fruit Orchards"
Trudy In-ta Zashchity Rasteniy AN Gruz. SSR (Works of the Institute of Plant
Protection, Acad Sci Georgian SSR) Vol 7, 1950, pp 159-169.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Peb 1952, pp 121-132. Unclassified.

Effect of extraneous factors on the stability of benzene hexachloride compounds [in Georgian with summary in Russian].

Trudy Inst. sashch, rast. AN Gruz. SSR 9:299-309 153.

(Benzene hexachloride) (HIRA 8:2)

6

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, G.V.

Method of studying the stability and toxicity of insecticidal suspensions [in Georgian with summary in Russian]. Trudy Inst. sashch.rast. AN Gruz. SER 9:311-319 '53. (Georgia--Insecticides)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

The most of waits saldite flequor as emulaider for petroleum of the petrol

KIPIANI, R.Ya.; GEGENAVA, G.V.

Tagged atom method of investigating the penetration of parathion into plants and the effect of external factors on its stability. Soob, AE Grus.SER 16 no.7:557-564 155. (MLRA 9:2)

1.Akademiya nauk Grusinskoy SSR, Institut sashchity rastemiy, Tbilisi. Predstavleno deystvitel'myn chlenom Akademii L.A. Kanchaveli. (Radioactive tracers) (Parathion) (Plants, Effect of insecticides on)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, G.V.

in in a new militer out of the property of the contract that the contract of t

Simplified method of preparing DDT oil emulsions. Soob.AE Grus. SSR 16 no.8:633-639 '55. (MLRA 9:5)

1. Akademiya nauk Grusinskoy SSR, Institut sashchity rasteniy, Tbilisi. Predstavleno deystvitel'nym chlenom Akademii L.A. Kauchaveli.

(DDT (Insecticide))

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, Q. U.

USSR Chemical Technology. Chemical Products and Their Application

I-27

Wood chemistry products. Cellulose and its manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32694

Author : Gegenava G. V.

: Institute of Plant Protection, Academy of Inst

Sciences Georgian SSR

: Study of "Sulfite Liquor" a Waste Product of Title

Ingurskiy Cellulose and Paper Combine.

Tr. In-ta zashchity rast. AN GruzSSR, 1956, 11,3-7 Orig Pub:

Abstract: Waste products of the above-stated combine are

Card 1/2

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

and the second s

. 27

USSR /Chemical Technology. Chemical Products and Their Application

Wood chemistry products. Cellulose and 1ts manufacture. Paper.

Abs Jour: Referat Zhur - Khimiya, No 9, 1957, 32694

similar, in their physico-chemical characteristics, to the waste of other analogous enterprises. It is demonstrated that concentrates of sulfite-alcohol vinasse possess emulsifying properties.

card 2/2

GEGENAVA, G.V.

Mixture of sulfite pulp extract and lime used as ingredients for alkaleid insecticides. Soeb.AN Grus. SSR 17 ne.6:519-526 '56.
(MERA 9:10)

1. Akademiya nauk Grusinskey SSR, Institut mashchity rasteniy. Thlisi. Predstavlene akademiken L.A. Kanchaveli. (Insecticides)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, G. V.

Method of determining the comparative phytotoxicity of insectefungicides. Seeb. AN Grus. SER 20 mg/6:693-699 Je '58. (MIRA 11:10)

1.Grusinskiy nauchno-isşledevatel'skiy institut sashchity rasteniy, Tbilisi. Predstavlene akademikom L.A. Kanchaveli. (Plants, effect of insecticides on) (Plants, Effect of fungicides en)

GEGENAVA, G.V.

10% concentrate of the oil emulsion of DDT. Zashch. rast. ot

vred. i bol. 4 no.2:37 Mr-Ap \$59.

(Georgia—Fruit—Diseases and pests)
(DDT (Insecticide))

(MIRA 16:5)

GEGENAVA, G.V., kand.sel'skokhoz.nauk

Substitute for Bordeaux mixture. Zashch.rast.ot vred.i bol. 7
no.5:35-36 My 162. (MIRA 15:11)

(Fungicides)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

Seasonal tolerance of red spider to the sulfur-line decection.
Soob. AN Gruz. SSR 29 no.2:191-196 Ag '62.

(MIRA 18:3)

1. Institut zashchity rasteniy, Tbilisi. Submitted December 8, 1962.

GEGENAVA, G.V.; OTKHMEZURI, L.T.

Nature of the action of a combined mixture of petroleum oil and thiophos. Soob. AN Grus. SSR 30 no.5:637-644 My *63. (MIRA 16:11)

1. Institut zashchity rasteniy Gruzinskoy SSR, Tbilisi. Predstavleno akademikom L.A.Kanchaveli.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, G.V., kand.sel'skokhoz.nauk

Ejection method of the preparation of emulsion. Zashch. rast. ot vred. i bol. 9 no.3:32-33 '64. (MIRA 17:4)

1. Gruzinskiy institut zashchity rasteniy, Tbilisi.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

CEGENAVA, G.V. Indices of the supposed effectiveness of persistent pesticides. Soob. AN Grus. SSR 33 no. 2:429-435 F '64. (MIRA 17:9) 1. Gruzinskiy institut zashchity rasteniy, Tbilisi. Predstavleno akademikom L.A.Kanchaveli.

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GEGENAVA, G.V.

Premises for the effectiveness and difficulties in the control of the whitefly Dialeurodes citri Ashm. Soob. AN Gruz. SSR 35 no.1:193-198 J1 164. (MIRA 17:10)

1. Gruzinskiy institut zashchity rasteniy, Tbilisi. Predstavleno akademikom L.A. Kanchaveli.

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The control of the co

Quantitative evaluation of the phytotrainity AN Gruz. SSR 37 no.3:635-698 Mr. 465.	of pesticides, Scob. (MIRA 18:5)
1. Grazinskiy institut zashchity nastenly, Sa 16, 1964.	ibwitted September

L 64445-55 ACCESSION NR: AP5016427

UR/0251/65/038/003/0651/0652

AUTHOR: Gegenava, G. V.; Nishnianidzo, N. O.; Soinishvili, O. N.;

TITLE: Effect of chemical protective agents on growth and development of citrus plants and on the content of their fruits

SOURCE: AN GruzSSR. Soobshcheniya, v. 38, no. 3, 1965, 651-652

FOPIC TAGS: insecticide, fungicide, plant growth, horticulture

ABSTRACT: The article represents a brief resume of literature data and experiments on the effects of various organic funcicles! (THTD etc.) on citrus plants. As a result of the various chemical agents, vegetation starts 1 to 2 days earlier, flowering of plants starts to 4 days earlier, and fruits mature 2 to 3 days earlier. Growth doubled, and the quality of tangerines, oranges, and lemons is experimental, standard, and control variants in respect to chemical Cord 1/2

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analysis of fruit pulpoils. Orig. art. has	and physical-chemical None.	indices of the aromatic		14.1 m
ASSOCIATION: None				
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Card 2/2				fed.

GEGENAVA, G.Y.; NISHNIANIDZE, N.O.; SEINISHVILI, O.N.; DEISADZE, T.A.

Effect of chemical plant protectors on the growth and development of citruses and the preservation of their fruits. Soob.

AN Gruz. SSR 38 no.3:646-652 Je 165. (MIRA 18:12)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GROWENVA, L.S., Gand Red Sci-(dies) "Effect of dimetrolyllutresein when the cardio-vescular system of normal and hypertensified enimals."

Thilici, Publishing House of the Acad Sci Georgian ESR, 1958. 18 pp

(Thilisi State Led Inst), 190 copies (NL,49-50, 126)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GVISHIANI, G.S.; ANDRIADZE, A.N.; GEGENAVA, L.S.

Effect of novocaine on the development of experimental atherosclerosis. Soob.AN Gruz.SSR 23 no.4:473-476 0 '59. (MIRA 13:5)

1. Akademiya Nauk Gruzinskoy SSR, Institut klinicheskoy i eksperimental'noy kardiologii im. M.D.TSinamdzgvrishvili, Tbilisi. Prelstavleno chlenom-korrespondentom Akademii K.P.Chikovani. (NOVOCAINE) (ARTERIOSCLEROSIS)

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GEGENAVA, L.S.; CHKHIKVISHVILI, L.S. Effect of some hydrazing derivatives of cobalt on coronary circulation. Trudy Inst. klin. i eksper. kard. AN Gruz. SSR (MIRA 17:7)

1. Institut kardiologii AN GruzSSR, Tbillisi.

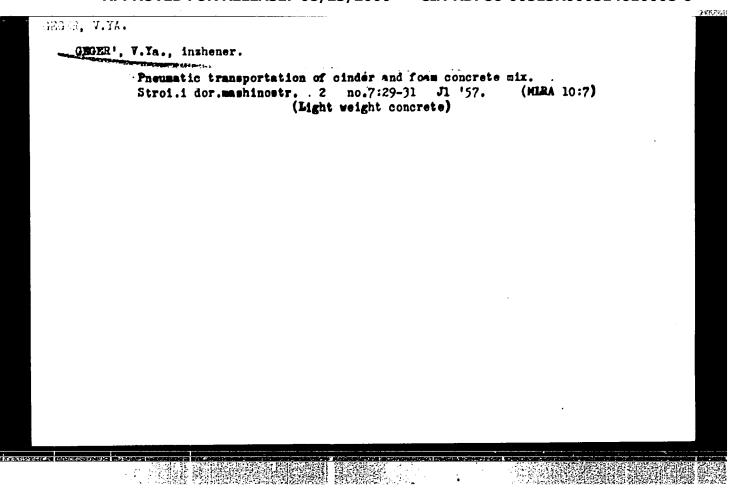
8:457-459 163.

APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R000514610008-6"

GULYANITSKIY, B.S.; LIPKES, Ya.M.; GEGER, V.E.

Utilization of titanium waste products. (Review of foreign literature). TSvet.met. 29 no.4:88-94 Ap '56. (MLRA 9:8)

(Titanium--Metallurgy)



Technology for Reduction of Large-Sized Rome Harbers from Winter

Foamy Coment on the Rasis of Team Asher from Leningrad Electric

Power Stations". Len, 1958. 14 pages. (Ministry of Higher Educ

(ML, 10-58, 120).

- 24 -

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"Agricultural Technique of Growing Birch Seedlings in the Watershed Rayons of the Alma-Atinskaya Oblast." Cand Agr Sci, Kazakh Agricultural Inst, Alma-Ata, 1953. (RZhBiol, No 5, Nov 54)

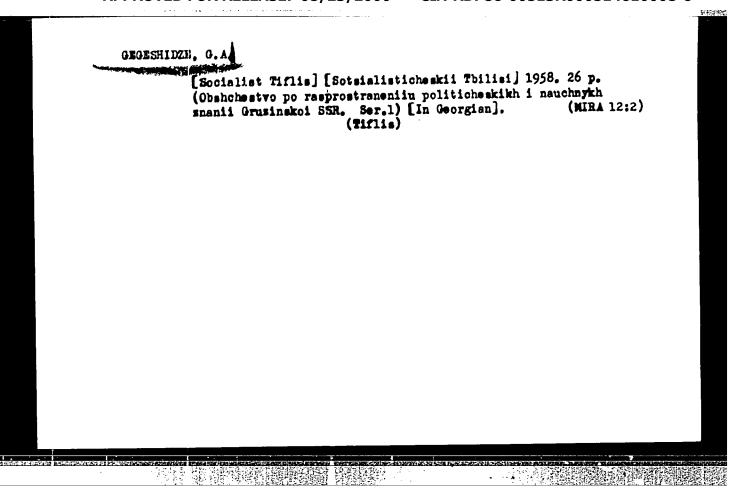
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Gegeshidze, G. A.

Voprosy razvitiya priborostroyeniya i sozdaniya novykh sredstv avtomatizatsii v Gruzinskoy SSR (Problems in the Development of Instrument Making and the Creation of New Means of Automation in the Georgian SSR) Tbilisi, Gos. izd-vo "Sabchota Sakartvelo", 1960. 216 p.

Ed.: N. Gabashvili, Professor; Tech. Ed.: V. Khutsishvili.

PURPOSE: This book is intended for technical personnel in general, especially those employed at planning and design offices, and plant engineers.

COVERAGE: The book discusses problems of the instrument-making industry in the Georgian SSR. Problems of organization and structure of scientific research institutes, design offices, and industrial enterprises in this field are discussed. The development of means of automation and prospects of the automation of

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Problems in the Development (Cont.) SOV/5170)
industrial processes in the Georgian SSR are reviewed. No sonalities are mentioned. There are 23 references, all So	
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Ch. II. Existing Conditions in Instrument Making and in the Development of New Means of Automation in Georgia 1. Developments of the Tbilisskiy nauchno-issledovatel'sk institut priborostroyeniya i sredstv avtomatizatsii	24 1 y
(TNIISA) (Tbilisi Scientific Research Institute of Instrument Making and Means of Automation) 2. Developments of the SKBPSA [Samostoyatel'noye konstruktorskoye byuro priborov i sredstv avtomati-	25
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